

## CLAIMS

*Subj* 1. ~~A safety~~ structure for a three-hole socket assembly, comprising : a canopy, an inner lid and a safety device, whereof the canopy on the surface is equipped with a ground insert hole and a B plus insert hole, plus a semi-circular neutral insert hole located independent of the ground hole and the B plus hole; the inner lid is a member applied upon the socket conductor and on the surface is provided with a ground passage hole, a B plus passage hole and a neutral passage hole, each corresponding with relevant hole provided on the canopy, characterized in that :

the safety device, comprising a left detent, a right detent and a spring, is structured such that the left detent, being a step member, is flanged with a pusher on one side of the high set section, the top of the pusher is formed into a downgoing ramp, on the top of the other side of the high step section just a strut, the bottom opposite is formed into a container channel, also on one side of the bottom of the low step section of the left detent is formed a rectanguloid shoe, the right detent is executed to be an L shape piece, on a forward point of one side thereof is formed a jutting pusher on top of which is formed an inwardly inclined ramp;

to assemble, the left detent and the right detent are united together by overlap match, so that the right detent is positioned right into the container channel beneath the left detent, while the pusher on the right detent just circumvents the pusher on the left detent, so that the two pushers are brought abutted upon each other, to bring the ramps into a V configuration, a spring seated

way between both detents once stretched to push both detents apart, will set the safety device installed on the inner lid of the socket, with both detents, left and right, of the safety device in a spreadout position just covering up the ground passage hole and the B plus passage hole, and both pushers covering up the neutral passage hole in the meanwhile; the neutral insert hole on the canopy being located just above the midpoint of a straight line interconnecting both pushers, the ground insert hole and the B plus insert hole being located respectively above the left pusher, the right pusher, in perfect symmetry with the ground passage hole and B plus passage hole underneath, and that consummates a safety structure for a three-hole socket assembly advocated hereunder.

4 2. ~~The safety~~ structure in a three-hole socket assembly according to  
15 Claim 1, whereof a groove is provided way between the neutral passage hole and the interlink interconnecting the ground passage hole and the B plus passage hole, on the inner lid, and it's a traverse groove.

4 3. ~~The safety~~ structure in a three-hole socket assembly according to  
20 Claim 1 or ~~Claim 2~~, whereof on one side of the bottom of the low level section of the left detent is formed a rectanguloid shoe to be matched with another rectanguloid shoe formed on the bottom of one side of the right detent by the intervention of a spring seated in-between serving to push apart both detents.

25 4. ~~The safety~~ structure in a three-hole socket assembly according to  
Claim 1, whereof from one side of the higher level section of the left detent juts a pusher, while from the top of another side there juts a strutting block.

*all A1*